

### REMARKS/ARGUMENTS

Enclosed herewith is a corrected drawing sheet for FIG. 4. Accordingly, it is respectfully submitted that the objection to FIG. 4 is overcome.

Claims 1, 10, 14, 19 and 20 have been amended to overcome the rejection under 35 U.S.C. §112, ¶2.

Pending claims 1-3, 9-14, 18 and 19 stand rejected under 35 U.S.C. §102(b) over U.S. Patent No. 4,689,762 (Thibodeau). Amended claim 1 recites that the claimed butterfly unit is to compute fast Hadamard transform (FHT) operations. Because Thibodeau nowhere discloses the computation of such operations the rejection of claims 1-3 and 9-10 is overcome.


As to amended claim 11, nowhere does Thibodeau teach sharing a transformation engine between multiple transformation operations via setting twiddle factors to one. Accordingly, claims 11-14 and 18-19 are patentable over Thibodeau.

For at least the same reasons, the rejection of claim 20 under 35 U.S.C. §103(a) over Thibodeau in view of U.S. Patent No. 6,130,915 (Hallier) is also overcome.

In view of these remarks, the application is now in condition for allowance and the Examiner's prompt action in accordance therewith is respectfully requested. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 20-1504.

Respectfully submitted,

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**Amendments to the Drawings:**

The attached sheet of drawings includes changes to FIG. 4. This sheet, which includes FIG. 4, replaces the original sheet including FIG. 4.

Attachment: Replacement Sheet